



**Beaufort County Public Works**  
**Stormwater Infrastructure**  
*Project Summary*

Project Summary: Luther Warren Drive Outfall

Project #: 2010-056                      Completed: Jan-10

Narrative Description of Project:  
 Project improved 450 L.F. of drainage system. Cleaned out 430 L.F. of outfall ditch. Installed 20 L.F. of outfall pipe and (1) flap gate. Cleaned out (2) catch basins. Jetted (1) crossline pipe and (1) access pipe. Installed rip rap and hydroseeded for erosion control.

**Material Cost, Rental Equipment Summary, and Labor**

Material	Unit	Cost/Unit	Qty	Cost
24" Aluminum Pipe	linear feet	\$10.62	20.0	\$212.40
24" Flap Gate	each	\$2,016.26	1.0	\$2,016.26
Fill Dirt	ton	\$1.00	42.4	\$42.42
Rip Rap	ton	\$47.08	14.9	\$701.96
#57 Stone	ton	\$34.78	6.8	\$236.50
Filter Blanket Woven	sy	\$0.63	69.4	\$43.75
Turf Staples	each	\$0.03	50.0	\$1.50
10-10-10 Fertilizer	bag	\$11.72	1.0	\$11.72
Hydromulch	bale	\$12.22	2.0	\$24.44
Hydrogel	cup	\$2.82	1.0	\$2.82
Hydromax Liquid Fertilizer	cup	\$2.54	1.0	\$2.54
Annual Rye Grass Seed	bag	\$19.21	1.0	\$19.21
Pin Flag	each	\$0.06	7.0	\$0.42
Water	gallon	\$0.01	1,500	\$15.00
Gas	gallon	\$2.54	30.0	\$76.20
Diesel	gallon	\$2.46	227.0	\$558.42
Labor	hours		249.5	\$8,519.82
<b>Total Cost of Materials, Rental Equip., and Labor</b>				<b>\$12,485.38</b>

Note: Labor cost includes the employee's salary plus fringe benefits.

**Equipment Cost**

Item	Asset No.	Cost/Hou	Hrs.	Cost
Komatsu Mini Excavator	23000	\$18.65	6.0	\$111.90
Bobcat T300	22847	\$20.10	3.0	\$60.30
Bobcat T320	23388	\$21.00	7.0	\$147.00
JD Loader 444J	23271	\$36.50	3.0	\$109.50
Vacuum Truck	22812	\$20.30	7.0	\$142.10

**Site Photographs**

Before



During



After



**Luther Warren Drive Outfall Project Summary Con't**

Project #: 2010-056

**Equipment Cost**

Item	Asset No.	Cost/Hou	Hrs.	Cost
Hydroseeder	18909	\$7.35	1.0	\$7.35
Dump Trucks		\$16.68	66.5	\$1,109.22
Pickup Trucks		\$4.17	56.5	\$235.61
<b>Total Equipment Cost</b>				<b>\$1,922.98</b>

Cost/hour excludes fuel cost.

Total Cost: \$14,408.36

**Site Photographs**

Before



During



After



Project: Luther Warren Drive Outfall

Activity: Ditch Maintenance













Project #: 2010-056

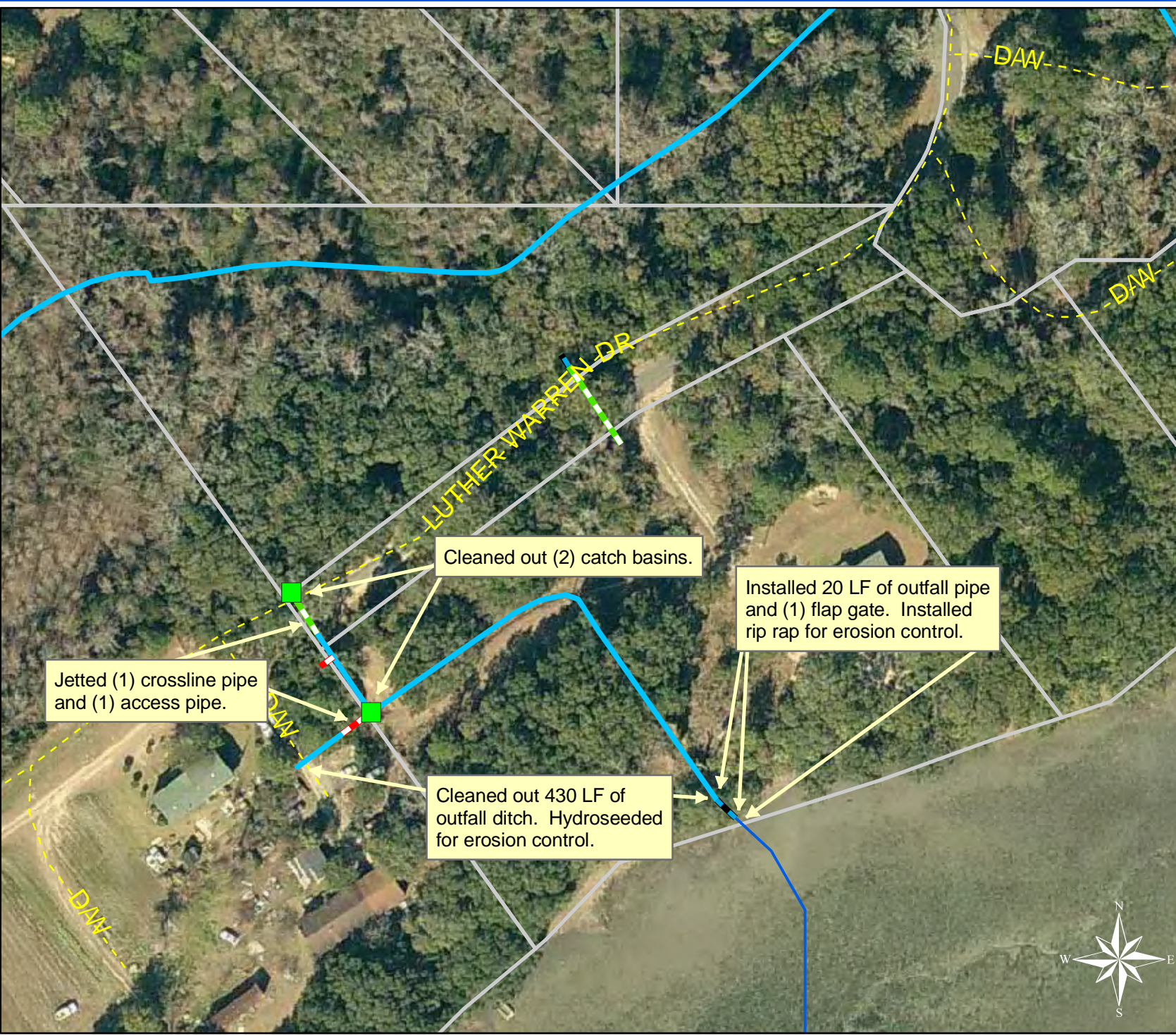
Township: St. Helena Island

Completed: January 2010

### Legend

#### Drainage Type

-  River
-  Stream
-  Outfall
-  Lateral
-  Roadside
-  Roadside Pipe
-  Crossline
-  D/W
-  Access
-  Piped
-  Bleeder
-  Parcels



1 inch equals 110 feet